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HAZARDOUS MATERIALS MANA. (U) CONSTRUCTION ENGINEERING  
RESEARCH LAB (ARMY) CHAMPAIGN IL M MESSENGER ET AL.  
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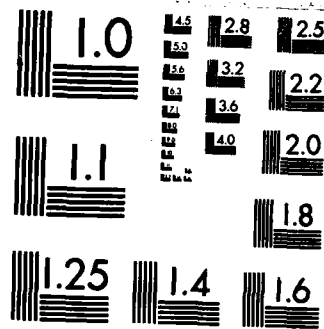
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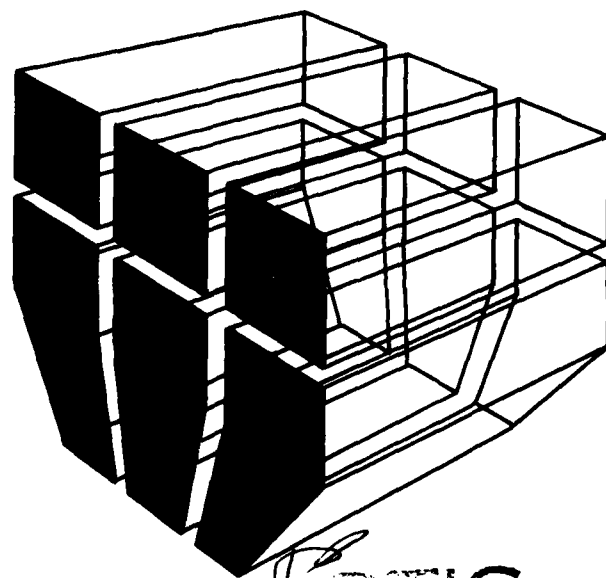
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TECHNICAL REPORT N-85/09  
April 1985  
Hazardous Materials Management Systems

# THE TRADE NAME TRANSLATOR (TNT) SUBSYSTEM OF THE HAZARDOUS MATERIALS MANAGEMENT SYSTEM: DESCRIPTION AND USER INSTRUCTIONS

by  
M. Messenger  
C. Corbin  
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H. Lee

Hazardous waste regulations based on the Resource Conservation and Recovery Act of 1976 (RCRA) control the transport, storage, and disposal of chemical products which may be hazardous if landfilled in the traditional way. The Army has implemented RCRA requirements through Army Regulation (AR) 200-1.



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The Hazardous Materials Management System (HMMS) is a computerized system being developed to help Army fixed facilities identify chemical substances subject to the requirements of the RCRA and AR 200-1, and to provide handling information on those substances. HMMS contains four subcomponents; one of these, called Trade Name Translator (TNT), is an interactive program which searches the Army Master Data File to correlate national stock numbers of chemical substances with their chemical names, and vice versa. Use of this system will help the Army more easily identify hazardous chemicals and thus decide the safest method to dispose of them. This report describes and provides detailed user instructions for operating the interactive TNT sub-component of HMMS.

*TNT Data Base Instructions*  
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## FOREWORD

This research was performed for the Assistant Chief of Engineers (ACE), under Project 4A762720A896, "Environmental Quality for Construction and Operation of Military Facilities"; Task A, "Installation Environmental Management Strategy"; Work Unit 034, "Hazardous Materials Management Systems." The work was performed by the Environmental Division (EN) of the U.S. Army Construction Engineering Research Laboratory (USA-CERL). Ms. Marcia Read, DAEN-ZCF-U, is the ACE Technical Monitor.

Dr. R. K. Jain is Chief of USA-CERL-EN. COL Paul J. Theuer is Commander and Director of USA-CERL, and Dr. L. R. Shaffer is Technical Director.

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GM	<input type="checkbox"/>
GN	<input type="checkbox"/>
GO	<input type="checkbox"/>
GP	<input type="checkbox"/>
GQ	<input type="checkbox"/>
GR	<input type="checkbox"/>
GS	<input type="checkbox"/>
GT	<input type="checkbox"/>
GU	<input type="checkbox"/>
GV	<input type="checkbox"/>
GW	<input type="checkbox"/>
GX	

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# THE TRADE NAME TRANSLATOR (TNT) SUBSYSTEM OF THE HAZARDOUS MATERIALS MANAGEMENT SYSTEM: DESCRIPTION AND USER INSTRUCTIONS

## 1 INTRODUCTION

### Background

The Army uses many different types of hazardous materials in the course of its daily operations. These include materials for such diverse activities as cleaning, vehicle maintenance, and medical functions. Resource Conservation and Recovery Act (RCRA) hazardous waste regulations, as implemented by Army Regulation (AR) 200-1<sup>1</sup> require the Army to provide identification, handling, and regulatory information for certain chemical substances which are hazardous.

The Hazardous Materials Management System (HMMS),<sup>2</sup> a computerized system developed by the U.S. Army Construction Engineering Research Laboratory (USA-CERL), provides this information. However, a major chemical identification problem frequently encountered at Army installations occurs when the chemical substance is labeled only with a national stock number (NSN), rather than with a name. The NSN must then be correlated with the substance's proper chemical name before it can be packaged, transported, or disposed of properly. Since the procurement systems used by Army installations identify the item being ordered only by NSN, it is common for items to be delivered with the stock number, but no chemical name, on the label.

To help solve this problem, a pilot subsystem of HMMS has been developed that provides a quick cross-reference between item name and national stock number. This subsystem, called the Trade Name Translator (TNT), is readily available to field users as a subsystem of the Environmental Technical Information System (ETIS),<sup>3</sup> the comprehensive system of which

HMMS is a part. Through TNT, the Army Master Data File (AMDF) of national stock numbers associated with item names will be easily accessible to the field through interactive software than can search the data by nomenclature, national stock number, and interchangeable and substitutable NSNs.

### Objective

The objective of this report is to describe and provide instructions for using TNT.

### Approach

The data base on which TNT operates was obtained from the Army Materiel Command's Catalog Data Activity (CDA) on magnetic tape. Relevant data fields were chosen and read into the computer. Chapter 2 discusses the structure and contents of the interactive databases. Interactive software to search the database was then designed, coded, implemented, and debugged. Chapter 3 explains the command language associated with this software and provides an example session with user instructions.

### Mode of Technology Transfer

It is recommended that the TNT subcomponent of HMMS be transferred in accordance with the provisions of AR 18-1, *Army Automation Management*, upon acceptance of the pilot HMMS by the Department of the Army.

## 2 TNT DATABASE DESCRIPTION

The TNT database, which was created from the Army Materiel Command's CDA system, provides information for correlating NSNs with item descriptions. The cataloging system, which contains the AMDF, is described in AR 708-1<sup>4</sup>: "The AMDF is a multi-segment file including both current and historical management data for Army used or managed items." Two segments from the AMDF were used to create the TNT database: the Item Identification Segment (IIS) and the Interchangeable and Substitute (I&S) Segment.

The IIS includes the nomenclature, unit of issue, source of supply, shelf life, price and acquisition advice for each national stock number that the Army uses or manages. These data fields were stripped off the IIS

<sup>1</sup>AR 200-1, *Environmental Protection and Enhancement* (Department of the Army, 15 June 1982).

<sup>2</sup>M. Messenger, et al., *Interactive Hazardous Materials Information System (HMIS): Description and Assessment*, Technical Report N-170/ADA138329 (U.S. Army Construction Engineering Research Laboratory [USA-CERL], 1983).

<sup>3</sup>R. D. Webster, et al., *Modification and Extension of the Environmental Technical Information System (ETIS) for the Air Force*, Special Report N-8/ADA079441 (USA-CERL, 1979).

<sup>4</sup>AR 708-1, *Cataloging and Supply Management Data* (Department of the Army, May 1981).

tapes and merged with the interchangeable and substitute stock numbers listed in the I&S segment. Table 1 lists the resulting retrievable fields in the TNT database.

The NSN is a 13-digit number that is the primary identifier for every item that the Army uses or manages. The first four numbers designate the Federal Supply Class (FSC) to which the item has been assigned. Only FSCs designated as possibly identifying hazardous materials were included in the TNT database (see Appendix A).

The nomenclature associated with each stock number in the IIS is limited to 35 characters. Within these limits, it contains as much of a description as will fit. For example, "Paint, oil, green, lusterless 1 qt can" is typical for this field. Each word or an entire phrase can be used as a keyword.

The unit of issue (ui) is a two-digit code in the IIS that expresses the amount or quantity of the item represented by the NSN. The codes have been translated in the TNT database to a one-word description of the container type and size. Appendix B lists and describes the codes.

The source of supply (ss) is a three-digit code that identifies the activity where the requisition will be sent. This activity functions as the item manager for the stock numbers it handles, and should have a material safety data sheet for each item. The source of supply code has been translated in the TNT database into a full name, address, and phone number of the responsible activity.

**Table 1**  
**TNT Data Fields**

#### Searchable Fields

national stock number (nsn)  
description (name)  
related NSN (is)  
TNT record number (#)

#### Retrievable Fields

TNT record number (#)  
national stock number (nsn)  
description (name)  
related NSN (is)  
unit of issue (ui)  
source of supply (ss)  
shelf life (life)  
price  
acquisition advice code (aac)

The shelf life identifies the period of time beginning with the date of manufacture or assembly and ending with the date by which the item must be used or disposed of. For medical items, the shelf life refers only to expiration-dated items. Shelf life is expressed in months.

The price field contains the standard or estimated price published by the item manager and is expressed in dollars and cents.

The acquisition advice code (aac) indicates how an item will be acquired: by requisition, by fabrication or assembly, or by local purchase. Appendix C gives the acquisition advice codes and explains them.

The I&S stock numbers are those that are directly interchangeable with the primary stock number or those that could be substituted for the primary stock number, depending on the end use of the product. This data can be used to try to identify potentially less hazardous replacements for chemical substances. I&S stock numbers do not exist for all primary stock numbers in the TNT database; when they are lacking, the words "no data" have been inserted into the I&S field.

## 3 INTERACTIVE TNT COMMAND LANGUAGE

Interactive software was designed to allow searches of selected data segments originating from the AMDF. Searches can be conducted using national stock numbers, chemical names and synonyms, generic names, interchangeable and substitutable stock numbers, and database record numbers. The retrievable fields (see Table 1) have been selected from the total AMDF on the basis of presumed usefulness to the Army installation user and do not represent the complete AMDF.

Two basic types of commands are needed to use the TNT system. Search commands are used with the searchable keywords to retrieve data records of interest to the user from computer storage. List commands are used to print out portions or all of the data records retrieved with the prior series of search commands.

#### Search Commands

The prompt for the system is a colon; when the system responds with a colon, it is waiting for a command

om the user. Four search commands are associated with the interactive TNT system:

- find (keyword name) Locates all records in total database that contain the specified keyword, e.g., : find paint
- or (keyword name) Searches the whole database for records containing the specified keywords and adds them to the group of records selected by the previous find, e.g., : or coating
- and (keyword name) Searches the group of records selected by the previous find command for those that also contain this specific keyword, e.g., : and green
- except (keyword name) Searches the group of records selected by the previous search command and removes those containing the keyword, e.g., : except lusterless

The group of selected records is reinitiated with a new "find" command. Keyword names are written completely in lower case, including any letters that appear as part of an NSN.

#### List Commands

Once the user has located the desired records in the database by using one or more search commands, a number of options exist for printing them out. The list command can be used in two ways:

- list all Produces a printout of the information contained in all the data fields for the selected records
- list (field name) Produces a printout of the information contained in just the specified fields for the selected records, e.g., : list name, shelf life, price

As many fields as desired can be used with the list command; they must be separated by commas, not spaces.

#### Other Commands

- show fields Prints out the names of the data fields that can be used with the list command.
- show (field name) Prints out *all* the actual keywords found in the raw databases for just the searchable fields. This produces quite a lengthy listing, since there are about 60,000 records in the TNT database.
- bye Any of these commands
- end can be used to leave the
- quit TNT system.

## 4 TNT USER INSTRUCTIONS

TNT is a subsystem of ETIS available over WATS, FTS, and TELENET phone numbers to all Department of Defense agencies. ETIS accounts and login procedures can be obtained from the University of Illinois Department of Urban and Regional Planning at 217/333-1369. Once a login account is obtained, TNT can be accessed by typing **Hmms** at the prompt as shown in the following example of a TNT session. In this example, user instructions are given in parentheses following the description of each prompt, and user input appears in boldface type. Type the following in response to the system prompt (\$).

#### \$Hmms

(The following message will appear on your screen.)

HMMS: What program?

Type carriage return to see a list of all programs.

(After you press carriage return, the following information will appear.)

pe:  
or rcra for RCRA Regulated Substance  
system.  
or trans for the HMIS Transportation system.  
or safety for the HMIS Safety system.  
or tnt for the Trade Name Translator system.  
or end type to exit from HMMS.

MMS: What program?  
ype carriage return to see a list of all programs

The system responds with the following message.)

Welcome to the TNT System

This program accesses selected portions of the Army  
Master Data File to correlate NSNs with descriptive  
item names. Comments/questions on the use of this  
program should be addressed to Ms. Manette Messenger,  
SA-CERL-EN, 217-352-6511.

or help, type 'help'

find paint  
067 found

and pigment  
91 found

except lusterless  
57 found  
12 in current list

list all

The following information will appear.)

4  
nsn: <010002395727  
name: pigment, iron blue  
s: no IS  
ui: OUNCE  
ss: THE GENERAL SERVICES ADMINISTRATION  
shelf life: 36 Month  
price: no applicable unit price  
aac: LOCAL PURCHASE

55  
nsn: 8010002395729  
name: pigment, chrome green  
s: no IS  
ui: CAN  
ss: THE GENERAL SERVICES ADMINISTRATION  
shelf life: 36 Month  
price: \$3.25

aac: GENERAL SERVICES ADMINISTRATION  
(GSA)—INTEGRATED MATERIEL MANAGER  
STOCKED AND ISSUED

432  
nsn: 8010002395735  
name: pigment, burnt umber  
is: no IS  
ui: QUART  
ss: THE GENERAL SERVICES ADMINISTRATION  
shelf life: 36 Month  
price: \$8.30  
aac: GENERAL SERVICES ADMINISTRATION  
(GSA)—INTEGRATED MATERIEL MANAGER  
STOCKED AND ISSUED

11234  
nsn: 8010002395736  
name: paint, white lead  
is: no IS  
ui: POUND  
ss: DEFENSE INDUSTRIAL SUPPLY CENTER  
PHILADELPHIA, PA, 19111  
shelf life: 24 Month  
price: \$2.15  
aac: SERVICE REGULATED

35679  
nsn: 8010?  
(The listing would normally continue until all 32  
records had been displayed. The example listing was  
interrupted by the user hitting the delete or rubout  
key on the terminal. This key can be used at any time  
to stop a listing without waiting for it to be completed.)

:bye

Goodbye from the TNT system . . .

## 5 SUMMARY

This report has described the database design and  
provided user instructions for the TNT system, which  
provides interactive searches of selected data from the  
Army Master Data File.

TNT is useful for correlating national stock numbers  
of chemical materials with an item name description.  
It can also potentially be used to identify less danger-  
ous substitutes for hazardous materials.

## APPENDIX A: FEDERAL SUPPLY CLASSES

FEDERAL SUPPLY CLASSES (first four numbers of NSN)

### ammunition and explosives

- 305 ammunition, through 30 mm
- 310 ammunition, 30–75 mm
- 315 ammunition, 75–125 mm
- 320 ammunition, over 125 mm
- 325 bombs
- 330 grenades
- 336 guided missile warheads and explosive components
- 337 guided missile and space vehicle explosive propulsion units, solid fuel, and components
- 338 guided missile and space vehicle inert propulsion units, solid fuel, and components
- 340 rockets, rocket ammunition, and rocket components
- 345 land mines
- 350 underwater mine inert components
- 351 underwater mine explosive components
- 355 torpedo inert components
- 356 torpedo explosive components
- 360 depth charges inert components
- 361 depth charges explosive components
- 365 military chemical agents
- 370 pyrotechnics
- 375 demolition materials
- 376 bulk explosives
- 377 cartridge and propellant activated devices and components
- 385 surface use explosive ordnance disposal tools and eqp
- 386 underwater use explosive ordnance disposal and swimmer weapons systems, tools, and eqp
- 390 fuses and primers
- 395 miscellaneous ammunition
- 398 specialized ammunition handling and servicing eqp

### fire fighting, rescue, and safety equipment

- 4210 fire fighting eqp
- 4220 marine lifesaving and diving eqp
- 4230 decontaminating and impregnated eqp
- 4240 safety and rescue eqp

### electric and electronic equipment components

- 5905 resistors

- 5910 capacitors
- 5915 filters and networks
- 5920 fuses and lightning arrestors
- 5925 circuit breakers
- 5930 switches
- 5935 connectors, electrical
- 5940 lugs, terminals, and terminal strips
- 5945 relays and solenoids
- 5950 cells and transformers
- 5955 oscillators and crystals
- 5960 electron tubes
- 5961 semiconductors
- 5962 microcircuits
- 5963 electronic modules

### 61 electric wire and power and distribution eqp

- 6105 electrical motors
- 6110 electrical control eqp
- 6115 generators and generator sets, electrical
- 6116 fuel cell power units, components and accessories
- 6120 transformers, distribution and power station
- 6125 converters, electrical rotating
- 6130 converters, electrical nonrotating
- 6135 batteries, nonrechargeable
- 6140 batteries, rechargeable
- 6145 wire and cable, electrical
- 6150 miscellaneous electric power and distribution eqp

### 62 lighting fixtures and lamps

- 6210 indoor and outdoor electric lighting fixtures
- 6220 electric vehicular lights and fixtures
- 6230 electric portable and hand lighting eqp
- 6240 electric lamps
- 6250 ballasts, lampholders, and starters
- 6260 nonelectrical lighting fixtures

### 65 medical, dental, and veterinary equipment and supplies

- 6505 drugs, biologicals, and official reagents
- 6508 medicated cosmetics and toiletries
- 6510 surgical dressing materials
- 6515 medical and surgical instruments, equipment, and supplies
- 6520 dental instruments, equipment, and supplies
- 6525 x-ray equipment, including film developers
- 6530 hospital furniture, equipment, utensils, and supplies
- 6532 hospital and surgical clothing
- 6540 ophthalmologic instruments, equipment, and supplies
- 6545 medical sets, kits, and outfits

ographic equipment

- cameras, motion picture
- cameras, still picture
- photographic projection equipment
- developing and finishing equipment
- photographic supplies
- photographic equipment and accessories
- film, processed
- photographic sets, kits, and outfits

icals and chemical products

- chemicals
- dyes
- gases, compressed and liquefied
- pest control agents and disinfectants
- miscellaneous chemical specialties

ing equipment and supplies

- floor polishers and vacuum cleaners
- brooms, brushes, mops, and sponges
- cleaning and polishing compounds and preparations

hes, paints, sealers, and adhesives

- paints, dopes, varnishes, and related products
- paint brushes
- preservative and sealing compds
- adhesives

ainers, packaging, and packing supplies

- bags and sacks
- drums and cans
- boxes, crates, and cartons
- commercial and industrial gas cylinders, empty
- bottles and jars
- reels and spools
- packaging and packing bulk materials, excluding adhesives
- ammunition and nuclear ordnance boxes, packages, and special containers
- special shipping and storage containers

83 textiles, leather, furs, tents, and flags

- 8305 textile fabrics
- 8310 yarn and thread
- 8315 notions and apparel findings
- 8320 padding and stuffing material
- 8325 fur materials
- 8330 leather
- 8335 shoe findings and soling materials
- 8340 tents and tarpaulins
- 8345 flags and pennants

85 toiletries

- 8510 perfumes, toilet preparations, and powders
- 8520 toilet soaps, shaving preparations, and dentifrices
- 8530 personal toiletry articles
- 8540 toiletry paper products

87 agricultural supplies

- 8710 forage and feed
- 8720 fertilizers
- 8730 seeds and nursery stock

91 fuels, lubricants, oils, and waxes

- 9110 fuels, solid
- 9130 liquid propellants and fuels, petroleum base
- 9135 liquid propellant fuels and oxidizers, chemical base
- 9140 fuel oils
- 9150 oils and greases, cutting, lubricating, and hydraulic
- 9160 misc. waxes, oils, and fats

93 nonmetallic fabricated materials

- 9310 paper and paperboard
- 9320 rubber-fabricated materials
- 9330 plastic-fabricated materials
- 9340 glass-fabricated materials
- 9350 refractories and fire-surfacing materials
- 9390 miscellaneous (includes asbestos)

## APPENDIX B: UNIT OF ISSUE CODES\*

The Unit-of-Issue (UI) Code is a two-position alphabetical code that expresses a definite amount or quantity of an item that will be issued. This amount or quantity is the managing activity's set accounting unit

on which unit price is based, accountable records are maintained, and requirements computed. Non-definitive Units of Issue (except for medical items) in the Item Data Segment (IDS) of the AMDF must be supported by a Unit-Measurement-Quantity Record.

A table of unit of issue designations, terms, and definitions to be assigned to items of supply follows:

Designation	Term	Definition
<b>A</b>		
AM	**Ampoule	A small glass or plastic tube sealed by fusion after filling.
AT	Assortment	A collection of different items that fall into a group or class, packaged as a small unit forming a single item of supply. Use only when the term "assortment" is part of the item name.
AY	Assembly	A collection of parts put together to form a complete unit, making a single item of supply, such as a hose assembly. Use only when the term "assembly" is part of the item name.
<b>B</b>		
BA	*Ball	A sphere-shaped mass of material, such as twine or thread.
BE	*Bale	A shaped unit of compressible materials bound with cord or metal ties and usually wrapped (such as paper and cloth rags).
BF	Board Foot	A unit of measure for lumber equal to the volume of a board 12" X 12" X 1".
BG	*Bag	A flexible container of various sizes and shapes made from such materials as paper, plastic, or textiles. Includes "sack" and "pouch."
BK	*Book	A booklike package, such as labels or tickets, fastened together along one edge, usually between protective covers.
BL	*Barrel	A cylinder-shaped container, metal or wood, with sides that bulge outward and flat ends or heads of equal diameter. Includes "keg."

\*This appendix is taken from Table 7-27 of AR 708-1, *Cataloging and Supply Management Data* (Department of the Army, 1 April 1981).

\*\*These terms require a quantitative expression.

Designation	Term	Definition
BD	*Bundle	A quantity of the same item tied together without compression.
BO	*Bolt	A flat fold of fabric having a stiff paper-board core.
BR	*Bar	A solid piece or block of various materials, with its length greater than its other dimensions, such as solder. Does not apply to items such as soap, beeswax, or buffing compound.
BT	*Bottle	A glass, plastic, or earthenware container of various sizes, shapes, and finishes (such as jugs, but excluding jars, ampoules, vials, and carboys) with a closure to retain contents.
BX	*Box	A rigid, 3-dimensional container of various sizes and materials. Includes "case," "carton," "tray," and "crate."
<b>C</b>		
CA	*Cartridge	Usually a tubular receptacle containing loose or pliable material designed to allow ready insertion into an apparatus for dispensing the material. Usually connected with adhesives and sealing compounds.
CB	*Carboy	A heavy-duty, bottle-type container used to transport and store liquids. Usually designed to be encased in a rigid protective outer container for shipment.
CE	*Cone	A cone-shaped mass of material such as twine or thread wound on a conical core.
CF	Cubic Foot	A unit of cubic measure.
CK	*Cake	A block of compacted or congealed matter. Applicable to such items as soap and buffing compound.
CL	*Coil	An arrangement of material such as wire, rope, and tubing wound in a circular shape.
CN	*Can	A rigid receptacle made of fiber, metal, plastic, or all three. Cans may be cylindrical or any number of irregular shapes. Restricted to items that cannot be issued in less than container quantity. Includes "pail" and "canister." Do not use when the packaged quantity equals a unit of measure pint, quart, gallon, ounce, or pound.

\*These items require a quantitative expression.



Designation	Term	Definition
CO	*Container	A general term used only when an item can be packaged for issue in optional containers -bottle or tube for a single NSN.
CD	Cubic Yard	A unit of cubic measure.
CY	*Cylinder	A rigid, cylinder-shaped, portable, metal container designed to store and transport compressed gases, generally fitted with protective valve closure and pressure-relief safety device.
CZ	Cubic Meter	A unit of cubic measure expressed in the metric system. Applied only to locally assigned stock numbers used to locally procure items such as ready-mix concrete and asphalt in areas where the metric system prevails.
<b>D</b>		
DR	*Drum	A cylinder-shaped container designed as an exterior pack to store and ship bulk materials (fuels, chemicals, powders, etc.). Drums may be made of metal, rubber, polyethylene, or plywood or fibre with wooden, metal, or fibre ends.
DZ	Dozen	Twelve (12) of an item of supply.
<b>E</b>		
EA	Each	A numeric quantity of one item of supply. Do not use if a more specific term applies, such as kit, set, assortment, assembly, group, sheet, plate, strip, or length.
<b>F</b>		
FT	Foot	Unit of linear measurement, sometimes expressed as "linear foot."
<b>G</b>		
GL	Gallon	Unit of liquid measurement.
GP	Group	A collection of related items issued as a single item of supply, such as test set group. Use only when the term "group" is part of the item name.

\*These items require a quantitative expression.

Designation	Term	Definition
<b>H</b>		
HD	Hundred	One hundred (100) of an item.
HK	*Hank	A loop of yarn or roping with definite yardage, such as cotton, 840 yards, worsted, 560 yards. See "Skein" for comparison.
<b>J</b>		
JR	*Jar	A rigid container having a wide mouth and often no neck, normally made of earthenware or glass. Excludes "bottle."
<b>K</b>		
KT	Kit	A group of related items issued as a single item of supply, such as tools, instruments, repair parts; instruction sheets often furnished inside a box or bag. Also includes selected groups of equipment parts, tools or materials for the repair, overhaul or modification of equipment. Use only when the term "kit" is part of the item name.
<b>L</b>		
LB	Pound	A unit of avoirdupois weight measure to 16 ounces.
LG	*Length	Term applies to items issued in fixed or specific linear measurements, without deviation. This term no longer applies to random lengths, which will be expressed in definite units of linear measure such as foot or yard. Excludes "strip."
LI	Liter	A unit of liquid measure expressed in the metric system.
<b>M</b>		
MC	Thousand Cubic Feet	A unit of cubic measure expressed in one thousand (1,000) increments.
ME	Meal	The amount of food generally taken by a person at one time.

\*These items require a quantitative expression.

Designation	Term	Definition
MR	Meter	A unit of linear measure expressed in the metric system equal to 39.37 inches. Limited in application to locally assigned stock numbers used to locally procure items such as pipe, lumber, tubing, and hose in areas where the metric system prevails.
MX	Thousand	One thousand (1,000) of an item.
O		
OT	Outfit	A group of related items issued as a single item of supply. For example, the tools, instruments, materials, equipment, and instruction manuals used to practice a trade or profession or to carry out a certain project or function. Use only when the term "outfit" is a part of the item name.
OZ	Ounce	A unit of liquid or avoirdupois weight.
P		
PD	*Pad	Multiple sheets of paper that are stacked together and sealed at one end.
PG	*Package	A form of protective wrapping for two or more of the same item of supply. To be used only when a unit of measure or container-type term does not apply. Includes "envelope."
PM	Plate	A flat piece of square or rectangular-shaped metal of uniform thickness, usually 1/4 in. or more. Use only when "plate" (FSCs 9515 and 9535) is used in an item name to denote shape.
PR	Pair	Two similar or identical items (gloves, shoes, bearings), or items integrally made of two identical parts (trousers, shears, goggles).
PT	Pint	A unit of liquid or dry measure.
PZ	*Packet	A container used for subsistence items. Use only when "food packet" is part of the item name (FSC 89).

\*These items require a quantitative expression.

Designation	Term	Definition
<b>Q</b>		
QT	Quart	A unit of liquid or dry measure.
<b>R</b>		
RA	Ration	The food allowance of one person for one day. Use only when "ration" (FSC 8970) is part of the item name.
RL	*Reel	A cylinder-shaped core on which a flexible material, such as wire or cable, is wound. Usually has flanged ends.
RM	Ream	A quantity of paper varying from 480 to 516 sheets, depending upon grade.
RO	*Roll	A cylinder-shaped figure of flexible material which has been rolled on itself such as textiles, tape, abrasive paper, photosensitive paper, and film. The core may or may not have flanges.
<b>S</b>		
SD	*Skid	A pallet-like platform consisting of a load-bearing area fastened to and resting on runner-type supports.
SE	Set	A group of matched or related items issued as a single item of supply, such as tool sets, instrument sets, and matched sets. Use only when the term "set" is part of the item name.
SF	Square Foot	A unit of square measure (area).
SH	Sheet	A flat piece of rectangular-shaped material of uniform thickness that is very thin in relation to its length and width, such as metal, plastic, paper, and plywood. This term is not limited to any group of items of FSCs. However, it will always be used when "sheet" is part of the item name to denote shape, such as aluminum alloy sheet. Excludes items in FSC 7210.
SK	Skein	A loop of yarn, 120 yards long, usually wound on a 54-inch circular core. See "hank" for comparison.

\*These items require a quantitative expression.

Designation	Term	Definition
SL	*Spool	A cylinder-shaped form with an edge or rim at each end and an axial hole for a pin or spindle to wind flexible material such as thread or wire on.
SO	Shot	A unit of linear measurement, usually applied to anchor chain, equal to 15 fathoms (90 ft).
SP	*Strip	A rather narrow, flat length of material uniform in width, such as paper, wood, and metal. Use only when the term "strip" is part of the item name.
SX	*Stick	Material in a rather long and slender, often cylinder form to ease application or use, such as abrasives.
SY	Square Yard	A unit of square measure (area).
T		
TN	Ton	Equals 2,000 lbs. Includes short ton and net ton.
TO	Troy Ounce	A unit of troy weight measure, based on a 12-ounce pound, generally applied to weights of precious metals.
TU	*Tube	Normally a squeeze-type container, most commonly made from flexible material and used in packaging toothpaste, shaving cream, and pharmaceutical products. Also is a form around which items are wound, such as thread. It does not apply to mailing tube, pneumatic tube, or cylinder-shaped containers of a similar type.
V		
VI	*Vial	A small glass container, generally less than an inch in diameter. Vials are flat-bottomed and tube-shaped and have a variety of neck finishes.
Y		
YD	Yard	A unit of linear measure equal to 3 feet and sometimes expressed as "linear yard."

\*These items require a quantitative expression.

## APPENDIX C: ACQUISITION ADVICE CODES\*

Code	Explanation	Code	Explanation
<b>A SERVICE REGULATED.</b>	<p>Issue, transfer, or shipment is controlled by authorities above the ICP level to insure proper and equal distribution.</p> <p>a. Using or stocking of the item requires release authority based on prior or concurrent justification.</p> <p>b. Requisitions should be submitted according to Army requisitioning procedure.</p>	<b>E OTHER SERVICE MANAGED, STOCKED AND ISSUED.</b>	<p>Issue, transfer, or shipment is not subject to special controls except those imposed by the Services' requisitioning policy.</p> <p>a. The item is centrally managed, stocked and issued.</p> <p>b. Requisitions may require a fund citation, and will be submitted according to the Army requisitioning procedure.</p>
<b>B ICP REGULATED.</b>	<p>Issue, transfer, or shipment is controlled by the ICP.</p> <p>a. Using or stocking of the item requires release authority based on prior or concurrent justification.</p> <p>b. Requisitions will be submitted according to Army requisitioning procedure.</p>	<b>F FABRICATE OR ASSEMBLE (OR OBTAIN ITEMS SOURCE CODED XB FROM CANNIBALIZATION).</b>	<p>Stock numbered items fabricated or assembled from raw materials and finished products are the normal method of support. Procuring and stocking the items is not justified because of low usage or peculiar installation factors. Differences between local or centralized fabricate or assemble capability are identified by the source of supply modifier in the "Source of Supply" column of the Service management data lists. (When an Army requirement for an item source coded XB cannot be satisfied through cannibalization, the item will be centrally procured, but not stocked.) A requisition for such an item, when submitted to an Army source of supply manager, must contain advice code 2A or it will be rejected with a status code "CN".</p>
<b>C SERVICE MANAGED.</b>	<p>Issue, transfer, or shipment is not subject to special control except those imposed by individual services' supply policy.</p> <p>a. The item is centrally managed, stocked, and issued.</p> <p>b. Requisitions will be submitted according to Army requisitioning procedure.</p>	<b>G GENERAL SERVICES ADMINISTRATION (GSA)-INTEGRATED MATERIEL MANAGER STOCKED AND ISSUED.</b>	<p>Identifies GSA-managed items available from GSA supply distribution facilities. Requisitions and fund citations will be submitted according to GSA/Army requisitioning procedure.</p>
<b>D DOD INTEGRATED MATERIEL MANAGER. (IMM) STOCKED AND ISSUED.</b>	<p>Issue, transfer, or shipment is not subject to special controls except those imposed by the IMM/Army supply policy.</p> <p>a. The item is currently managed, stocked, and issued.</p> <p>b. Requisitions must contain the fund citation required to acquire the item. Requisitions will be submitted according to IMM/Army requisitioning procedure.</p>	<b>H DIRECT DELIVERY UNDER A CENTRAL CONTRACT.</b>	<p>Issue, transfer, or shipment is not subject to special controls except those imposed by the IMM/Army supply policy.</p> <p>a. The item is centrally procured, but not stocked.</p> <p>b. Issue is by direct shipment from the vendor to the user at the order of the ICP or IMM.</p>

\*This appendix is taken from Table 7-1, Army Regulation 708-1, *Cataloging and Supply Management Data* (Department of the Army, 1 April 1981).

**Code****Explanation**

c. Requisitions and fund citations will be submitted according to IMM/Army requisitioning procedures.

**I DIRECT ORDERING FROM A CENTRAL CONTRACT/SCHEDULE.**

Issue, transfer, or shipment is not subject to special controls except those imposed by Integrated Materiel Manager/Services supply policy. The item is covered by a centrally issued contract or by a multiple award Federal Supply Schedule for GSA-managed items. This permits using activities to place orders directly to vendors for direct delivery to the user.

**Note:** The Source of Supply shown in positions 30-32 of the IDS will be a Defense Logistics Agency (DLA) Center or the GSA with the Special Requirements Code "D" (DLA) or "S" (GSA) in position 66 of the Item Data Segment. Special Requirements Code "D" designates the Source of Supply Modifier "JDS" identifying DLA supply schedule items; "S" designates Source of Supply Modifier "JGS" identifying GSA supply schedule items.

**J NOT STOCKED, LONG LEADTIME.**

IMM/Service centrally managed, but not stocked, item. Procurement will be started only after a requisition is received.

**K CENTRALLY STOCKED FOR OVERSEAS ONLY.**

Main means of supply is local purchase. Item is stocked in domestic supply system for those overseas activities unable to procure locally -

a. Because procurement sources are not available.

b. Where local purchase is prohibited by the Defense Acquisition Regulations, flow of gold, or by internal military services restraints, etc. Requisitions will be submitted by overseas activities according to Army requisitioning procedures.

**Note:** CONUS activities will obtain supply support through local procurement procedures.

**Code****Explanation**

**L LOCAL PURCHASE.**

DLA/GSA/Service managed items authorized for local purchase, as a normal means of support, at base, post, camp, or station level. Item is not stocked in Wholesale Distribution System, or by IMM or at Service Inventory Control Point. Refer to codes listed in position 66 of the IDS for applicable source of supply modifiers.

**M RESTRICTED REQUISITIONS-MAJOR OVERHAUL.**

Items (assemblies or component parts), which for lack of specialized tools, test equipment, etc., can be used only by major overhaul activities. Base, post, camp, or station activities will not requisition unless authorized to perform major overhaul functions.

**N RESTRICTED REQUISITIONING-DISPOSAL.**

Discontinued items no longer authorized for issue except on the specific approval of the Service inventory manager. Requisitions may be submitted according to service requisitioning procedures when valid requirements exist and replacing item data has not been furnished.

**O PACKAGED FUELS-DLA MANAGED AND SERVICE (ALPHA) REGULATED.**

Item will be centrally procured per DOD 4140.25-M but not stocked by IMM. A long leadtime is required.

a. Requirements will be satisfied by direct shipment to the user either from a vendor or from Service assets at the order of the ICP or IMM.

b. Requirements or requisitions will be submitted according to Service procedures.

**P RESTRICTED REQUISITION-MILITARY ASSISTANT PROGRAM (MAP).**

Indicates item in stock only for MAP requirements. Base, post, camp, or stations will not requisition.

Code	Explanation
Q	<p><b>BULK PETROLEUM PRODUCTS, DLA MANAGED.</b></p> <p>Item may be either centrally stocked or available by direct delivery under a central contract.</p> <p>a. Requirements will be submitted by Services according to IMM procedures.</p> <p>b. Items will be supplied according to DOD 4140.25-M.</p>
R	<p><b>RESTRICTED REQUISITION-GOVERNMENT FURNISHED MATERIEL (GFM).</b></p> <p>Indicates item is centrally procured as GFM in connection with the manufacture of military items. Base, post, camp, or stations will not requisition.</p>
S	<p><b>RESTRICTED REQUISITIONING-OTHER SERVICE FUNDED.</b></p> <p>For Service managed items, when the issue, transfer, or shipment is subject to special controls of the funding Service.</p> <p>a. Item is procured by Army for the funding Service and is centrally managed by the funding Service.</p> <p>b. The procuring Service has no requirement in its logistic system for the item.</p>
T	<p><b>CONDEMNED.</b></p> <p>Items no longer authorized for procurement, issue, or requisitioning.</p>
V	<p><b>TERMINAL ITEM.</b></p> <p>Identifies items in stock, but future procurement is not authorized. Requisitions may be submitted until stocks are exhausted. Preferred items NSNs are normally provided by applying the phrase, "When Exhausted Use." Requisitions will be submitted according to IMM/Army requisition procedures, as applicable.</p>
W	<p><b>RESTRICTED REQUISITIONING SPECIAL INSTRUCTIONS APPLY.</b></p> <p>Indicates stock number has been assigned to a generic item for use in bid invitations, allowance lists, etc., against which no stocks are ever recorded. Requisitions will be sub-</p>

Code	Explanation
	<p>mitted only according to IMM/Army requisition procedures. (This code will be used, when applicable, together with the phrase code "S" (stock as).) It can be used when a procurement source becomes available. The phrase code "S" and the applicable "Stock as" stock number will then be used in stock, store, and issue actions.</p>
X	<p><b>SEMIACTIVE ITEM-NO REPLACEMENT.</b></p> <p>A potentially inactive stock number that must be retained in the supply system as an item of supply because-</p> <p>a. Stocks of the item are on hand or in use below the wholesale level.</p> <p>b. The item is reflected in Equipment Authorization Documents, TOE, TA, TM, etc.</p> <p>c. "In Use" assets are being reported.</p> <p>(1) Items are authorized for central procurement but not authorized for stock at the wholesale level.</p> <p>(2) Requisitions for "in use" replacement will be authorized according to Army directives.</p> <p>(3) Requisitions may be submitted as requirements generate. Constant demands may dictate an aac change to permit wholesale stockage.</p>
Y	<p><b>TERMINAL ITEM.</b></p> <p>Further identifies aac "V" items on which wholesale stocks have been exhausted.</p> <p>Future procurement is not authorized.</p> <p>a. Requisitions will not be processed to the wholesale suppliers.</p> <p>b. Requisitioning may continue according to requisitioning policies.</p> <p><b>Note:</b> aac "Y" will be used to identify DOD nonstandard items, which are not to be requisitioned by Army activities, although, in some instances, the integrated manager may continue to procure, stock, and supply non-Army agencies.</p>
Z	<p><b>INSURANCE/NUMERIC STOCKAGE OBJECTIVE ITEM.</b></p>



**Code****Explanation**

Items that are required occasionally and prudence dictates that a small amount of material be stocked because of the need or the leadtime of the item.

**Code****Explanation**

- a. The item is centrally managed, stocked, and issued.
- b. Requisitions will be submitted to IMM/Army requisitioning procedures.

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